|  | <br> | <br>ims |  |
|--|------|---------|--|
|  |      |         |  |

| Application/Control No. | Applic |
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|                         | Reexa  |
|                         | I      |

10/827,120

Examiner

Jason Heckert

cant(s)/Patent under amination

HAY ET AL. Art Unit

1746

| <b>✓</b> | Rejected |
|----------|----------|
| 11       | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   | Postricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

|              |  |                                       |              |              |              | \        |  |  |               |           |
|--------------|--|---------------------------------------|--------------|--------------|--------------|----------|--|--|---------------|-----------|
| Cla          | ıım  | <u> </u>                              | _,           |              |              | ate      | <del>;</del>                                     | _  |               | _         |
| Final        | Original   | 3/2/07                                |              |              |              |          |  |  |               |           |
|              | 1  | 1                                     |              |              |              |          |  | ヿ  |               |           |
|              | 2  | 1                                     |              |              | _            |          |  | ┪  |               |           |
|              | 3  | 7                                     | $\neg$       | Г            |              |          |  | $\neg$   |               |           |
|              | 4  | 7                                     |              | _            | _            |          |  |  |               |           |
|              | 5  | Ì                                     | _            |              | $\vdash$     | _        |  | 寸  | _             |           |
|              | 6  | 1                                     | _            | H            | -            | _        |  | 一  | _             | $\dashv$  |
|              | 1<br>2<br>3<br>4<br>5<br>6                               | Ì                                     |              |              | -            | Н        | $\exists$  | _  | _             | $\exists$ |
|              | 8  | 1                                     |              |              |              |          |  |  |               |           |
|              | 8<br>9   | 1                                     | _            |              |              |          |  |  |               |           |
|              | 10   | 1                                     | _            |              |              |          |  |  |               |           |
|              | 11   | 1                                     | _            | _            |              |          | $\neg$   |  |               |           |
|              | 12   | 1                                     |              | T -          | Т            | _        | $\dashv$   |  |               | $\sqcap$  |
|              | 13   | 1                                     |              |              | ┢            | М        | $\Box$   | 一  |               | Н         |
|              | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | 777777777777                          |              | Г            | <u> </u>     | П        |  | $\dashv$   |               |           |
|              | 15   | 1                                     |              | _            |              |          |  | $\neg$   |               |           |
|              | 16   | 1                                     |              |              |              |          |  |  |               |           |
|              | 17   | J                                     | _            |              | -            | $\vdash$ |  |  |               |           |
|              | 18   | Ì                                     |              | H            | $\vdash$     | $\vdash$ | Н  |  |               | П         |
|              | 19   | J                                     |              | -            | $\vdash$     | $\vdash$ | -  |  |               | Н         |
|              | 20   | 寸                                     | ┢            | $\vdash$     |              | -        |  |  | _             | Н         |
|              | 21   | j                                     | ┢─           | $\vdash$     | _            | -        | -  |  |               | Н         |
|              | 22   | ij                                    | ┢─           | ┢            | H            | $\vdash$ |  |  | $\overline{}$ | Н         |
| -            | 22<br>23<br>24<br>25<br>26                               | ij                                    | ├─           | ┢            | ╁╌           | $\vdash$ | _  |  |               |           |
|              | 24   | ij                                    | $\vdash$     | -            | ⊢            | $\vdash$ | H  | -  |               |           |
| _            | 25   | 1                                     |              | ╁            | ┢            | -        | $\vdash$   | _  |               | Н         |
|              | 26   | 1                                     | -            | -            | ╁            | -        |  |  | -             | Н         |
|              | 27   | J                                     |              | -            | ╁            | $\vdash$ | -  | -  | $\vdash$      |           |
|              | 28   | 1                                     | -            | -            | ┝            | -        | $\vdash$   | _  | ┝             | -         |
| _            | 28<br>29<br>30<br>31                                     | 1                                     | ┢            | -            | $\vdash$     | ┢        | -  | $\vdash$   | ├─            | $\vdash$  |
|              | 30   | 1                                     | ⊢            | ├            | ╁            | -        | $\vdash$   |  | ┢             | $\vdash$  |
| -            | 31   | 1                                     | ├            | ┢            | ╁            | ┢        | $\vdash$   | _  | $\vdash$      | H         |
|              | 32   | 1                                     | $\vdash$     | -            | ╁─           | $\vdash$ | -  | -  | $\vdash$      |           |
|              | 32   | <del>  \</del>                        | ├            | $\vdash$     | $\vdash$     | -        | $\vdash$   | -  | $\vdash$      | H         |
| _            | 33<br>34   | 1                                     | <del> </del> | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$   |  | $\vdash$      | -         |
|              | 35   | 1                                     | -            | ╁            | $\vdash$     | $\vdash$ | -  | <del>                                     </del> | -             | H         |
| <del></del>  | 36   | 1                                     | $\vdash$     | -            | $\vdash$     | +-       | $\vdash$   | <del>                                     </del> | -             | H         |
| <del></del>  | 36<br>37   | 1                                     | -            | $\vdash$     | +            | ╁        | $\vdash$   | ├-   | ┢             |           |
| <del></del>  | 38   | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 1            | $\vdash$     | <del>l</del> | $\vdash$ | -  | -  | -             | H         |
| <u> </u>     | 39   | 1                                     | <del> </del> | $\vdash$     | $\vdash$     | ╁        | $\vdash$   |  | $\vdash$      | $\vdash$  |
| l            | 40   | 1 V                                   | -            | ┢            | ╁            | $\vdash$ | -  | ┝  | $\vdash$      | $\vdash$  |
| <del> </del> | 41   | 1                                     | ┢            | $\vdash$     | $\vdash$     | ├        |  | -  | ┥             | $\vdash$  |
| <b></b>      | 42   | ╀                                     | <del> </del> | 1            | ╁            | -        | <del>                                     </del> | $\vdash$   | -             | $\vdash$  |
|              | 42   | +-                                    | $\vdash$     | ┼            | +            | $\vdash$ | -  | <del> </del>                                     | $\vdash$      | $\vdash$  |
|              | 44   | ╁                                     | -            | H            | ├-           | ⊢        |  | ⊢  | <del> </del>  | ├         |
| _            |  | ╫                                     | ├            | <del> </del> | ╀            | $\vdash$ | $\vdash$   | ├-   |               | ┢         |
| ļ.—          | 45   | -                                     | $\vdash$     | $\vdash$     | +            | ├-       | ├  | $\vdash$   | 1—            | $\vdash$  |
| -            | 46   | $\vdash$                              | $\vdash$     | +            | +-           | ┼─       | ├  | -  | $\vdash$      | +-        |
| <u> </u>     | 47   | ₩                                     | ├            |              | $\vdash$     | $\vdash$ | $\vdash$   | -  | ├             | $\vdash$  |
|              | 48   | $\vdash$                              | <u> </u>     | $\vdash$     | $\vdash$     | $\vdash$ | ├-   | ├-   | -             | $\vdash$  |
| <u> </u>     | 49   | $\vdash$                              | 1—           | ╀            | ╄            | ⊢        | ┢  | ⊢-   |               | $\vdash$  |
| 1            | 50   | 1                                     | ı            | 1            | 1            | 1        | 1  | ı  | 1             | 1         |

| Cla        | Date     |          |   |  |  |              |          |            |          |          |
|------------|----------|----------|---|--|--|--------------|----------|------------|----------|----------|
| Final      | Original |          |   |  |  |              |          |            |          |          |
|            | 51       |          |   |  |  |              |          |            |          |          |
|            | 52       |          |   |  |  |              |          |            |          |          |
|            | 53       |          |   |  |  |              |          |            |          |          |
|            | 54       | 一        |   |  |  |              |          |            |          |          |
|            | 54<br>55 | 寸        |   |  |  |              |          |            |          |          |
| · ·        | 56       |          |   | $\overline{}$                                    | -  |              | _        |            |          |          |
|            | 57       |          |   |  | _  |              |          |            |          | _        |
|            | 57<br>58 |          |   | $\vdash$   | _  | -            |          |            |          |          |
| -          | 59       | -        |   |  |  | _            |          |            | -        |          |
| $\vdash$   | 60       |          | _ | $\vdash$   | ┢  | _            |          |            |          |          |
| -          | 61       |          | _ | <del>                                     </del> | $\vdash$   |              |          | _          | -        |          |
| -          | 62       | -        |   | $\vdash$   | _  | _            | -        | _          | _        |          |
| -          | 63       |          |   | $\vdash$   | <del>                                     </del> | $\vdash$     | _        | Н          | $\vdash$ | _        |
| -          | 64       | $\vdash$ |   | $\vdash$   | $\vdash$   | $\vdash$     |          | $\vdash$   | -        |          |
|            | 65       |          |   | $\vdash$   | $\vdash$   | <del> </del> | -        | $\vdash$   | H        |          |
| -          | 66       |          |   | <u> </u>   | $\vdash$   | <u> </u>     | $\vdash$ |            |          | _        |
| -          | 66<br>67 | $\dashv$ |   | _  | -  |              | -        | $\vdash$   | -        | -        |
| <u> </u>   | 00       | -1       |   | $\vdash$   | -  | -            | _        | ⊢          | -        |          |
|            | 68       |          |   | H  |  | -            | _        | -          | -        |          |
| <b>├</b> ─ | 69       |          |   | ⊢  | -  | -            | _        | -          |          |          |
|            | 70       |          |   | <u> </u>   | -  | ├            | <u> </u> | -          |          | _        |
| ļ          | 71       |          | _ | H  | _  | <u> </u>     | <u> </u> | _          | <u> </u> | <u> </u> |
|            | 72       | Ш        |   | ├  | _  | _            | <u> </u> |            | -        | _        |
|            | 73       |          |   | _  | <u> </u>   |              | <u> </u> | <u> </u>   | <u> </u> | <u> </u> |
|            | 74<br>75 |          |   | <u> </u>   | <u> </u>   | L            | _        | <u> </u>   | _        | <u> </u> |
|            | 75       |          |   | ļ  | <u> </u>   | ļ            | <u> </u> |            | ▙        |          |
|            | 76<br>77 |          |   | <u> </u>   | L_   | _            |          | _          | _        | <u> </u> |
|            | 77       |          |   | ļ  | _  |              |          | <u> </u>   | <u> </u> | _        |
| <u> </u>   | 78       |          |   | ļ.,  | _  | ┞            | <u> </u> | ļ          | <u> </u> | _        |
|            | 79<br>80 |          |   | _  | L  | ╙            | <u> </u> | _          | _        | ļ        |
|            | 80       |          |   | <u> </u>   | _  | ┖            | <u> </u> | L          |          | _        |
|            | 81       | _        |   | ļ  | <u> </u>   | <u> </u>     | _        | _          |          | <u> </u> |
|            | 82<br>83 |          |   |  | <u> </u>   | _            | _        |            | ļ        | _        |
| L          | 83       |          |   | $oxed{oxed}$                                     | <u>L</u>   | <u> </u>     | L        |            | <u>L</u> | L        |
| L          | 84       |          |   |  | L  |              | L        | <u> </u>   | <u> </u> | L        |
|            | 85       |          |   |  |  |              | L        |            | L        | L        |
|            | 86       |          |   |  |  |              | L        |            | L        | L        |
|            | 87<br>88 |          |   | L  | L  |              | ·        |            |          |          |
|            | 88       |          |   |  | L  |              |          |            | <u> </u> | L        |
|            | 89       |          |   |  | L  |              |          |            |          | L        |
|            | 90       |          |   |  | L  |              | L        |            |          |          |
|            | 91       |          |   |  |  |              |          |            |          |          |
|            | 92       |          |   |  |  |              |          | L          |          |          |
|            | 93       |          |   | L  |  |              |          |            |          |          |
|            | 94       |          |   |  |  |              |          | 匚          |          | 匚        |
|            | 95       | $\Box$   |   | $L^{-}$  |  |              |          | Ĺ          | Ĺ        | L        |
|            | 96       |          |   |  |  |              |          |            |          |          |
|            | 97       |          |   |  | $\Box$   |              |          |            | L        |          |
|            | 98       | L        |   |  |  | $\Box$       |          | $L^{T}$    | $\Box$   |          |
|            | 99       |          |   |  |  |              |          | $\Gamma^-$ | $L^-$    | $\Gamma$ |
|            | 100      |          | Π | $\top$   | T  | 1            | Π        | Т          | Ī        | 1        |

| U 10   | aim  | Date         |              |   |                |                |              |            |                |          |  |
|--|--|--------------|--------------|---|----------------|----------------|--------------|------------|----------------|----------|--|
|  |  |              |              |   |                |                |              |            |                |          |  |
| Final  | Original   |              |              |   |                |                |              |            |                |          |  |
| ᇤ  | rig  |              |              |   |                |                |              |            |                |          |  |
|  | 0  |              |              |   |                |                |              |            |                |          |  |
| _  | 101  |              |              |   |                |                |              |            |                |          |  |
|  | 102  | _            |              | П   |                |                |              |            |                |          |  |
|  | 102<br>103   |              |              | $\vdash$  |                |                |              |            | $\neg$         |          |  |
|  | 104  | _            | _            | Н   |                |                | -            |            |                | _        |  |
|  | 104<br>105   | $\vdash$     | _            | -   | _              |                |              | -          | $\vdash$       |          |  |
|  | 106  |              |              | -   | _              | _              | _            | -          | -              | _        |  |
|  | 107  |              | _            | $\vdash$  | _              |                |              |            | $\dashv$       | _        |  |
|  | 107<br>108   | -            | _            |   |                |                | _            |            | $\dashv$       |          |  |
|  | 109  |              | _            | $\vdash$  |                | _              | _            |            | Н              |          |  |
|  | 109  |              | _            | -   |                | _              | _            |            |                |          |  |
|  | 110  |              |              | _   | _              | -              |              | _          |                |          |  |
|  | 111  | <u> </u>     |              | L   | <u> </u>       | _              | _            | _          |                |          |  |
|  | 112  | <u> </u>     | _            | $\vdash$  | $\vdash$       | <u> </u>       |              | H          | $\vdash$       |          |  |
|  | 110<br>111<br>112<br>113<br>114<br>115<br>116                      | <u> </u>     | <u> </u>     | ⊢-  | <u> </u>       | <u> </u>       | <u> </u>     | <u> </u>   | Ш              | <u> </u> |  |
|  | 114  |              | L            | <u> </u>  | Ш              | Ŀ              | <u> </u>     | L_         |                |          |  |
|  | 115  | <u> </u>     | ·            | $oxed{oxed}$  | _              |                | L_           | <u> </u>   | $\vdash$       |          |  |
|  | 116  | _            | _            |   | <u> </u>       |                |              | _          | _              |          |  |
|  | 1117   |              | <u> </u>     |   | _              | L_             |              | L.         |                |          |  |
|  | 118<br>119   |              |              |   |                |                |              |            |                |          |  |
|  | 119  |              |              |   |                |                |              |            | Ĺ              |          |  |
|  | 120  |              |              |   |                |                |              |            |                |          |  |
|  | 121  |              |              |   |                |                |              |            |                |          |  |
|  | 122  |              |              |   |                |                | Г            |            |                |          |  |
|  | 123  |              |              | Г   |                |                |              |            |                |          |  |
|  | 121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130 |              |              | Т   |                |                |              | Т          |                |          |  |
|  | 125  | ┪            |              | ┢   | 1              | ┢              |              |            |                |          |  |
|  | 126  | ┢            | H            | †   | _              | ┰              |              |            | _              | _        |  |
|  | 127  | H            | $\vdash$     | <del>                                     </del>  | $\vdash$       | -              | $\vdash$     |            | $\vdash$       | -        |  |
| -  | 128  | $\vdash$     | -            | ┢   | ╁              | ╁              | ┼            | -          | -              |          |  |
|  | 120  | ├            |              | ┢   | ├              | -              | ╁            | -          | -              | ┢        |  |
|  | 120  | ⊢            | ⊢            | <del> </del>  | ┢              | -              | ╁╴           | ⊢          | ┢              | -        |  |
|  | 130  | ┢            | ┢            | -   | $\vdash$       | -              | ╁            | $\vdash$   | ┝╌             | ┝        |  |
|  | 131  | <u> </u>     | -            | -   |                | ├              | ⊢            | ⊢          | ┢              | ├─       |  |
| <u> </u>   | 132<br>133   | ├            | <del> </del> | $\vdash$  | -              | -              | ⊢            | $\vdash$   | <del> </del>   | -        |  |
|  | 133  | $\vdash$     | ├-           | ⊢   | ├              | ├              | $\vdash$     | $\vdash$   | $\vdash$       | -        |  |
|  | 134<br>135   |              | <u> </u>     | <b>├</b> -  | ╙              | ├_             | ├            |            | ₩              | <u> </u> |  |
| <u> </u>   | 135  | ├            |              | <b> </b>  | ـ              | $\vdash$       |              | ├          | ├              | <u> </u> |  |
|  | 136  | ↓_           | <u> </u>     | <b> </b>  | <u> </u>       | ┞-             | <b>!</b>     | <u> </u>   | <u> </u>       | ļ        |  |
|  | 137<br>138   | <u> </u>     | <b>L</b>     | <b> </b>  | ļ              | <del> </del> _ | $\vdash$     | <u> </u>   | <u> </u>       | <b>.</b> |  |
| L  | 138  | <u> </u>     | L            | _   | <u> </u>       | <u> </u>       | ┖            | <b> </b> _ | <del> </del> _ | <u> </u> |  |
|  | 139  | _            | <u></u>      | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | <u> </u>       | <u> </u>       | 1_           | <b>!</b> _ | <u> </u>       |          |  |
|  | 140  | $oxed{oxed}$ |              | <u>L</u>  | _              | <u> </u>       | _            | _          | <u> </u>       | ┞        |  |
|  | 141  |              |              |   |                |                | $oxed{\Box}$ |            |                | L        |  |
|  | 142  |              |              |   | L              |                |              |            |                | L        |  |
|  | 143  |              |              |   |                |                |              |            |                |          |  |
|  | 144  | Π            |              |   | Г              | 1              |              |            |                |          |  |
| <u> </u>   | 145  | T            | Γ            | 1   | Т              | 1              | 1            | Π          |                |          |  |
|  | 146  | T            | П            |   | Т              | T              | 1            | T          | 1              | Ī        |  |
| $\vdash$   | 147  | $t^-$        | 1            | $\vdash$  | $\vdash$       | T              | Η            | Т          | $\top$         | <u> </u> |  |
| <u> </u>   | 148  | t            | 1-           | 1-  | <del>1 -</del> | 1-             | †            | T          | $\vdash$       | T        |  |
| <del>                                     </del> | 149  | +            | $\vdash$     | +   | ╁              | t              | t            | $t^-$      | $\vdash$       | 1        |  |
| <b></b>  | 150  | +-           | $\vdash$     | +   | +-             | $\vdash$       | +            | +-         | +              | 1        |  |
|  |  |              |              |   |                |                |              |            |                |          |  |